

# Documented Code For mfirstuc v2.03

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## Contents

|  |           |
|--|-----------|
| <b>1 Introduction</b>                          | <b>1</b>  |
| <b>2 Main Package Code</b>                     | <b>1</b>  |
| 2.1 Mfirstuc Documented Code . . . . .         | 1         |
| 2.2 Mfirstuc-english Documented Code . . . . . | 9         |
| <b>Change History</b>                          | <b>10</b> |
| <b>Change History</b>                          | <b>10</b> |
| <b>Index</b>                                   | <b>11</b> |

## 1 Introduction

This is the documented code for the mfirstuc package. See mfirstuc-manual.pdf for the main user guide.

## 2 Main Package Code

### 2.1 Mfirstuc Documented Code

```
1 \NeedsTeXFormat{LaTeX2e}
2 \ProvidesPackage{mfirstuc}[2016/07/29 v2.03 (NLCT)]
```

Requires etoolbox:

```
3 \RequirePackage{etoolbox}
```

\makefirstuc Syntax:

```
\makefirstuc{<text>}
```

Makes the first letter uppercase, but will skip initial control sequences if they are followed by a group and make the first thing in the group uppercase, unless the group is empty. Thus `\makefirstuc{abc}` will produce: `Abc`, `\makefirstuc{\ae bc}` will produce: `Æbc`, but `\makefirstuc{\emph{abc}}` will produce `Abc`. This is required by `\Gls` and `\Glspl`.

```

4 \newif\if@glscs
5 \newtoks\@glsmfirst
6 \newtoks\@glsmrest
7 \newrobustcmd*{\makefirstuc}[1]{%

```

Check if argument starts with `\protect` which needs to be skipped.

```

8 \@MFU@p@makefirstuc#1\relax\relax\relax\@end@MFU@protected{#1}%
9 }

```

`\@MFU@protect`

```

10 \newcommand*{\@MFU@protect}{\protect}

```

`\@p@makefirstuc`

Internal command to do the required action.

```

11 \def\@MFU@p@makefirstuc#1#2#3\@end@MFU@protected#4{%

```

Test if the first argument is `\protect`.

```

12 \def\@glsc@argi{#1}%
13 \ifx\@glsc@argi\@MFU@protect
14 \@makefirstuc{#2#3}%
15 \else
16 \@makefirstuc{#4}%
17 \fi
18 }

```

`\@makefirstuc`

Internal command to do the required action.

```

19 \newcommand*{\@makefirstuc}[1]{%
20 \def\@glsc@argi{#1}%
21 \ifx\@glsc@argi\@empty

```

If the argument is empty, do nothing.

```

22 \else

23 \def\@glsc@tmp{\ #1}%
24 \@onelevel@sanitize\@glsc@tmp
25 \expandafter\@glsc@checkcs\@glsc@tmp\relax\relax
26 \if@glscs

```

Check if we have two sequential control sequences.

```

27 \expandafter\def\expandafter\@glsc@tmp\expandafter{\expandafter
28 \ \@gobble #1}%
29 \@onelevel@sanitize\@glsc@tmp
30 \expandafter\@glsc@checkcs\@glsc@tmp\relax\relax
31 \if@glscs\@glscsfalse\else\@glscstrue\fi
32 \fi
33 \if@glscs
34 \@glsc@getbody #1{}\@nil

```

```

35     \ifx\@gls@rest\@empty
36       \glsmakefirstuc{#1}%
37     \else
38       \expandafter\@gls@split\@gls@rest\@nil
39       \ifx\@gls@first\@empty
40         \glsmakefirstuc{#1}%
41       \else
42         \expandafter\@glsmfirst\expandafter{\@gls@first}%
43         \expandafter\@glsmrest\expandafter{\@gls@rest}%
44         \edef\@gls@domfirstuc{\noexpand\@gls@body
45           {\noexpand\glsmakefirstuc\the\@glsmfirst}%
46           \the\@glsmrest}%
47         \@gls@domfirstuc
48       \fi
49     \fi
50   \else
51     \glsmakefirstuc{#1}%
52   \fi
53 \fi
54 }

```

`\@gls@split` Put first argument in `\@gls@first` and second argument in `\@gls@rest`:

```

55 \ifdef\dtl@getfirst@UTFviii
56 {%
57   \def\@gls@split#1#2\@nil{%
58     \ifbool{\dtl@utf8}
59     {%
60       \expandafter\dtl@if@two@octets#1#2\relax\dtl@end@if@two@octets
61       {%
62         \dtl@getfirst@UTFviii#1#2\@nil\end\dtl@getfirst@UTFviii
63         \let\@gls@first\dtl@first
64         \let\@gls@rest\dtl@rest
65       }%
66     }%
67     \def\@gls@first{#1}\def\@gls@rest{#2}%
68   }%
69 }%
70 }
71 }%
72 {%
73   \def\@gls@split#1#2\@nil{%
74     \def\@gls@first{#1}\def\@gls@rest{#2}%
75   }
76 }

77 \def\@gls@checkcs#1 #2#3\relax{%
78   \def\@gls@argi{#1}\def\@gls@argii{#2}%
79   \ifx\@gls@argi\@gls@argii
80     \@glscstrue
81   \else

```

```

82 \@glscsfalse
83 \fi
84 }

```

Has datatool-base v2.24 (or above) been loaded? If so and we have UTF-8 enabled, we can grab the first octet.

fu@applytofirst

```

85 \ifdef\dtl@getfirst@UTFviii
86 {%
87 \def\@mfu@applytofirst#1#2\@mfu@end@applytofirst#3{%
88 \expandafter\dtl@if@two@octets#1#2\relax\dtl@end@if@two@octets
89 {%
90 \dtl@getfirst@UTFviii#1#2\@nil\end\dtl@getfirst@UTFviii
91 \expandafter#3\expandafter{\dtl@first}\dtl@rest
92 }%
93 {%
94 #3#1#2%
95 }%
96 }%
97 }%
98 {%
99 \def\@mfu@applytofirst#1#2\@mfu@end@applytofirst#3{#3#1#2}
100 }

```

\MFUapplytofirst

```
\MFUapplytofirst{<cs>}{<text>}
```

Apply <cs> to first token of text, or first UTF-8 character if datatool-base v2.24 above has been loaded with the utf8 support enabled.

```

101 \ifdef\dtl@getfirst@UTFviii
102 {%
103 \newcommand*\MFUapplytofirst[2]{%
104 \ifbool{@dtl@utf8}
105 {%
106 \ifblank{#2}%
107 {#1{#2}}%
108 {%
109 \ifblank{#1}%
110 {#1#2}%
111 {%
112 \@mfu@applytofirst#2\@mfu@end@applytofirst#1\relax
113 }%
114 }%
115 }%
116 {%
117 #1#2%
118 }%
119 }

```

```

120 }%
121 {%
122   \newcommand*{\MFUapplytofirst}[2]{#1#2}
123 }

gls@makefirstuc   Make first thing upper case:
124 \def\@gls@makefirstuc#1{\MFUapplytofirst\mfirstucMakeUppercase{#1}}

ucMakeUppercase   Allow user to replace \MakeUppercase with another case changing command.
125 \newcommand*{\mfirstucMakeUppercase}{\MakeUppercase}

\glsmakefirstuc   Provide a user command to make it easier to customise.
126 \newcommand*{\glsmakefirstuc}[1]{\@gls@makefirstuc{#1}}

    Get the first grouped argument and store in \@gls@body.
127 \def\@gls@getbody#1#\def\@gls@body{#1}\@gls@gobbletonil}

    Scoop up everything to \@nil and store in \@gls@rest:
128 \def\@gls@gobbletonil#1\@nil{\def\@gls@rest{#1}}

\xmakefirstuc     Expand argument once before applying \makefirstuc (added v1.01).
129 \newcommand*{\xmakefirstuc}[1]{%
130   \expandafter\makefirstuc\expandafter{#1}%
131 }

\emakefirstuc     Fully expand argument before applying \makefirstuc
132 \newrobustcmd*{\emakefirstuc}[1]{%
133   \protected@edef\@MFU@caparg{#1}%
134   \expandafter\makefirstuc\expandafter{\@MFU@caparg}%
135 }

capitalisewords   Capitalise each word in the argument. Words are considered to be separated by plain spaces
                  (i.e. non-breakable spaces won't be considered a word break).
136 \newrobustcmd*{\capitalisewords}[1]{%
137   \let\@mfu@checkword\@gobble
138   \def\gls@add@space{}%
139   \let\@mfu@domakefirstuc\MFUcapword
140   \mfu@capitalisewords#1 \@nil\mfu@endcap
141 }

capitalisewords   \@mfu@checkword needs to be set before use.
142 \newcommand*{\@mfu@mid@capitalisewords}[1]{%
143   \def\gls@add@space{}%
144   \let\@mfu@domakefirstuc\MFUcapword
145   \mfu@capitalisewords#1 \@nil\mfu@endcap
146 }

```

```

147 \def\mfu@capitalisewords#1 #2\mfu@endcap{%
148   \def\mfu@cap@first{#1}%
149   \def\mfu@cap@second{#2}%
150   \gls@add@space
151   \@mfu@checkword{#1}%
152   \@mfu@domakefirstuc{#1}%
153   \def\gls@add@space{ }%
154   \ifx\mfu@cap@second\@nnil
155     \let\next@mfu@cap\mfu@noop
156   \else
157     \let\next@mfu@cap\mfu@capitalisewords
158     \let\@mfu@checkword\mfu@checkword
159   \fi
160   \next@mfu@cap#2\mfu@endcap
161 }
162 \def\mfu@noop#1\mfu@endcap{}

```

\ifMFUhyphen    Split on hyphens.

```

163 \newif\ifMFUhyphen
164 \MFUhyphenfalse

```

\MFUcapword

```

165 \newcommand*\MFUcapword[1]{%
166   \ifMFUhyphen
167     \@MFUcapword#1-\@nil\@endMFUcapword
168   \else
169     \makefirstuc{#1}%
170   \fi
171 }

```

\@MFUcapword

```

172 \def\@MFUcapword#1-#2\@endMFUcapword{%
173   \makefirstuc{#1}%
174   \def\@mfu@argii{#2}%
175   \ifx\@mfu@argii\@nnil
176   \else
177     -\@MFUcapword#2\@endMFUcapword
178   \fi
179 }

```

\mfu@checkword    Check if word should be capitalised. This originally used etoolbox's \ifinlist command but this doesn't work if the word contains grouping.

```

180 \newcommand*\mfu@checkword[1]{%
181   \def\mfu@checkword@arg{#1}%
182   \let\@mfu@domakefirstuc\MFUcapword
183   \forlistloop\mfu@checkword@do\@mfu@nocaplist
184 }

```

```

fu@checkword@do  Handler for loop used by \mfu@checkword
185 \newcommand*{\mfu@checkword@do}[1]{%
186   \ifdefstring{\mfu@checkword@arg}{#1}%
187   {%
188     \let\@mfu@domakefirstuc\@firstofone
189     \listbreak
190   }%
191   {%
192 }

\@mfu@nocaplist  List of words that shouldn't be capitalised.
193 \newcommand*{\@mfu@nocaplist}{}

\MFUnocap  Provide the user with a means to add a word to the list.
194 \newcommand*{\MFUnocap}[1]{\listadd{\@mfu@nocaplist}{#1}}

\gMFUnocap  Global version.
195 \newcommand*{\gMFUnocap}[1]{\listgadd{\@mfu@nocaplist}{#1}}

\MFUclear  Clear the list
196 \newcommand*{\MFUclear}{\renewcommand*{\@mfu@nocaplist}{} }

capitalisewords  Short-cut command:
197 \newcommand*{\xcapitalisewords}[1]{%
198   \expandafter\capitalisewords\expandafter{#1}%
199 }

capitalisewords  Fully expand argument before applying \capitalisewords
200 \newrobustcmd*{\ecapitalisewords}[1]{%
201   \protected@edef\@MFU@caparg{#1}%
202   \expandafter\capitalisewords\expandafter{\@MFU@caparg}%
203 }

italisefmtwords  Like \capitalisewords but assumes that the phrase contains formatting text-block com-
mands.
204 \newcommand*{\capitalisefmtwords}[1]{%
205   \let\@mfu@checkword\@gobble
206   \def\gls@add@space{}%
207   \@capitalisefmtwords#1 \@nil\relax
208 }

italisefmtwords
209 \def\@capitalisefmtwords#1 #2{%
210   \def\gls@argi{#2}%
211   \ifx\gls@argi\@nnil
212     \def\@mfu@capfmtwordsnext{\@capitalisefmtwords#1\@nil}%
213   \else
214     \def\@mfu@capfmtwordsnext{\@capitalisefmtwords#1\@nil

```

```

215 \def\gls@add@space{ }%
216 \let\@mfu@checkword\mfu@checkword
217 \@@cap@nofmtphrase#2}%
218 \fi
219 \@mfu@capfmtwordsnext
220 }%

```

talise@fmtwords

```

221 \def\@capitalise@fmtwords#1{%
222 \def\gls@argi{#1}%
223 \ifx\gls@argi\@nnil
    Do nothing.
224 \let\@mfu@capfmtwordsnext\relax
225 \else
226 \ifx\gls@argi\@MFU@protect
    Skip \protect
227 \def\@mfu@capfmtwordsnext{\@capitalise@fmtwords}%
228 \else
229 \def\@gls@tmp{\ #1}%
230 \@onelevel@sanitize\@gls@tmp
231 \expandafter\@gls@checkcs\@gls@tmp\relax\relax
232 \if@glscs
233 \def\@mfu@capfmtwordsnext{\@@capitalise@fmtwords#1}%
234 \else
235 \ifx\gls@argi\@empty
236 \def\@mfu@capfmtwordsnext{\@@capnofmtphrase{}}%
237 \else
238 \def\@mfu@capfmtwordsnext{\@@capnofmtphrase#1}%
239 \fi
240 \fi
241 \fi
242 \fi
243 \@mfu@capfmtwordsnext
244 }

```

italise@fmtwords Check for a group following argument.

```

245 \def\@@capitalise@fmtwords#1{%
246 \@ifnextchar\bgroup{\@@capfmtphrase#1}{\@@capnofmtphrase#1}%
247 }

```

\@@capfmtphrase

```

248 \def\@@capfmtphrase#1#2#3{%
249 \def\@gls@tmp{#3}%
250 \ifx\@gls@tmp\@nnil
251 \def\@mfu@capfmtwordsnext{#1{\@capitalise@fmtwords#2 \@nil}}%
252 \else
253 \def\@mfu@capfmtwordsnext{\@@capfmtsubphrase#1{#2}#3}%
254 \fi

```



```

255 \@mfu@capfmtwordsnext
256 }

```

@capnofmtphrase

```

257 \def\@capnofmtphrase#1\@nil{%
258 \gls@add@space
259 \@mfu@mid@capitalisewords{#1}%
260 \def\gls@add@space{ }%
261 }

```

capfmtsubphrase

```

262 \def\@capfmtsubphrase#1#2#3\@nil{%
263 \gls@add@space
264 #1{\@mfu@mid@capitalisewords{#2}}%
265 \def\gls@add@space{ }%
266 \let\@mfu@checkword\mfu@checkword
267 #3%
268 }

```

cap@nofmtphrase

```

269 \def\@cap@nofmtphrase#1 #2\@nil{%
270 \def\gls@arg{#2}%
271 \ifx\gls@arg\@empty
272 \@capitalisefmtwords#1 \@nil
273 \else
274 \@capitalisefmtwords#1 \@nil
275 \def\gls@add@space{ }%
276 \let\@mfu@checkword\mfu@checkword
277 \@capitalisefmtwords#2 \@nil
278 \fi
279 }

```

italisefmtwords Short-cut command:

```

280 \newcommand*{\xcapitalisefmtwords}[1]{%
281 \expandafter\capitalisefmtwords\expandafter{#1}%
282 }

```

italisefmtwords

```

283 \newrobustcmd*{\ecapitalisefmtwords}[1]{%
284 \protected@edef\@MFU@caparg{#1}%
285 \expandafter\capitalisefmtwords\expandafter{\@MFU@caparg}%
286 }

```

## 2.2 Mfirstuc-english Documented Code

```

287 \NeedsTeXFormat{LaTeX2e}
288 \ProvidesPackage{mfirstuc-english}[2016/07/29 v2.03 (NLCT)]

```

Load mfirstuc if not already loaded:

289 \RequirePackage{mfirstuc}

Add no-cap words. This list isn't complete. I don't intend adding disputed words. Additional words can be added to the document in a similar manner.

290 \MFUnocap{a}  
 291 \MFUnocap{an}  
 292 \MFUnocap{and}  
 293 \MFUnocap{but}  
 294 \MFUnocap{for}  
 295 \MFUnocap{in}  
 296 \MFUnocap{of}  
 297 \MFUnocap{or}  
 298 \MFUnocap{no}  
 299 \MFUnocap{nor}  
 300 \MFUnocap{so}  
 301 \MFUnocap{some}  
 302 \MFUnocap{the}  
 303 \MFUnocap{with}  
 304 \MFUnocap{yet}

## Change History

|  |  |
|--|--|
| ?? (??)  | 2.0 (2015/09/09)   |
| \@gls@split: added check for<br>datatool-base UTF-8 support . . . . . 3          | \@makefirstuc: added check for two<br>control sequences . . . . . 2      |
| \@mfu@applytofirst: new . . . . . 4  | General: package split from glossaries . . . 1                           |
| \MFUapplytofirst: new . . . . . 4  | 2.01 (2015-12-08)  |
| 1.03 (2008/12/22)  | \makefirstuc: added check for<br>\protect . . . . . 2                    |
| \@makefirstuc: changed<br>\protected@edef to \def . . . . . 2                    | 2.02 (2015-12-17)  |
| 1.05 (2011/04/02)  | \mfu@checkword: modified to use loop<br>instead of \ifinlist . . . . . 6 |
| \glsmakefirstuc: new . . . . . 5   | \mfu@checkword@do: new . . . . . 7                                       |
| 1.06 (2012/05/21)  | 2.03 (2016-07-29)  |
| General: now requires etoolbox . . . . . 1                                       | \@@cap@nofmtphrase: new . . . . . 9                                      |
| \capitalisewords: new . . . . . 5  | \@@capfmtphrase: new . . . . . 8   |
| \xcapitalisewords: new . . . . . 7   | \@@capfmtsubphrase: new . . . . . 9                                      |
| 1.08 (2013-11-04)  | \@@capnofmtphrase: new . . . . . 9                                       |
| \capitalisewords: made robust . . . . . 5  | \@MFU@p@makefirstuc: changed test . . . 2                                |
| \makefirstuc: made robust . . . . . 2  | \@MFU@protect: new . . . . . 2   |
| 1.09 (2017-07-30)  | \@MFU@capword: new . . . . . 6   |
| \@mfu@nocaplist: new . . . . . 7   | \@capitalise@fmtwords: new . . . . . 8                                   |
| \capitalisewords: added check for<br>words that shouldn't be capitalised . . . 5 | \@capitalisefmtwords: new . . . . . 7,8                                  |
| \gMFUnocap: new . . . . . 7  | \@mfu@mid@capitalisewords: new . . . 5                                   |
| \mfu@checkword: new . . . . . 6  | \capitalisefmtwords: new . . . . . 7                                     |
| \MFUclear: new . . . . . 7   | \ecapitalisefmtwords: new . . . . . 9                                    |
| 1.10 (2015/05/03)  | \ifMFUhyphen: new . . . . . 6  |
| \ecapitalisewords: new . . . . . 7   | \MFUcapword: new . . . . . 6   |
| \emakefirstuc: new . . . . . 5   | \xcapitalisefmtwords: new . . . . . 9                                    |

# Index

Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in *roman* refer to the code lines where the entry is used.

| <b>Symbols</b>                  |              |
|---------------------------------|--------------|
| \@@cap@nofmtphrase .....        | 8            |
| \@@capfmtphrase .....           | 8            |
| \@@capfmtsubphrase .....        | 8            |
| \@@capitalisefmtwords .....     | 8            |
| \@@capnofmtphrase .....         | 8            |
| \@MFU@caparg .....              | 5, 7, 9      |
| \@MFU@p@makefirsttuc .....      | 2            |
| \@MFU@protect .....             | 2, 8         |
| \@MFU@capword .....             | 6            |
| \@capitalise@fwtwords .....     | 7            |
| \@capitalisefmtwords .....      | 7–9          |
| \@empty .....                   | 2, 3, 8, 9   |
| \@end@MFU@protected .....       | 2            |
| \@end@MFU@capword .....         | 6            |
| \@firstofone .....              | 7            |
| \@gls@argi .....                | 3            |
| \@gls@argii .....               | 3            |
| \@gls@body .....                | 3, 5         |
| \@gls@checkcs .....             | 2, 3, 8      |
| \@gls@domfirsttuc .....         | 3            |
| \@gls@first .....               | 3            |
| \@gls@getbody .....             | 2, 5         |
| \@gls@gobbletonil .....         | 5            |
| \@gls@makefirsttuc .....        | 5            |
| \@gls@rest .....                | 3, 5         |
| \@gls@split .....               | 3            |
| \@gls@tmp .....                 | 2, 8         |
| \@glscsfalse .....              | 2, 4         |
| \@glscstrue .....               | 2, 3         |
| \@glsmfirst .....               | 2, 3         |
| \@glsmrest .....                | 2, 3         |
| \@gobble .....                  | 2, 5, 7      |
| \@ifnextchar .....              | 8            |
| \@makefirsttuc .....            | 2            |
| \@mfu@applytofirst .....        | 4            |
| \@mfu@argii .....               | 6            |
| \@mfu@capfmtwordsnext .....     | 7–9          |
| \@mfu@checkword .....           | 5–9          |
| \@mfu@domakefirsttuc .....      | 5–7          |
| \@mfu@end@applytofirst .....    | 4            |
| \@mfu@mid@capitalisewords ..... | 9            |
| \@mfu@nocaplist .....           | 6, 7         |
| \@nil .....                     | 2–9          |
| \@nnil .....                    | 6–8          |
| \@onelevel@sanitize .....       | 2, 8         |
| \_ .....                        | 2, 8         |
| <b>B</b>                        |              |
| \bgroup .....                   | 8            |
| <b>C</b>                        |              |
| \capitalisefmtwords .....       | 9            |
| \capitalisewords .....          | 7            |
| <b>D</b>                        |              |
| datatool-base package .....     | 4            |
| \def .....                      | 2–9          |
| \dtl@end@if@two@octets .....    | 3, 4         |
| \dtl@first .....                | 3, 4         |
| \dtl@getfirst@UTFviii .....     | 3, 4         |
| \dtl@if@two@octets .....        | 3, 4         |
| \dtl@rest .....                 | 3, 4         |
| <b>E</b>                        |              |
| \edef .....                     | 3            |
| \else .....                     | 2, 3, 6–9    |
| \end@dtl@getfirst@UTFviii ..... | 3, 4         |
| etoolbox package .....          | 1, 6         |
| \expandafter .....              | 2–5, 7–9     |
| <b>F</b>                        |              |
| \fi .....                       | 2–4, 6, 8, 9 |
| \forlistloop .....              | 6            |
| <b>G</b>                        |              |
| \gls@add@space .....            | 5–9          |
| \gls@arg .....                  | 9            |
| \gls@argi .....                 | 2, 7, 8      |
| \gls@makefirsttuc .....         | 3            |
| <b>I</b>                        |              |
| \if@glscs .....                 | 2, 8         |
| \ifblank .....                  | 4            |
| \ifbool .....                   | 3, 4         |

|   |           |                                     |            |
|---|-----------|-------------------------------------|------------|
| <code>\ifdef</code> .....                 | 3, 4      | <code>\MFUcapword</code> .....      | 5, 6       |
| <code>\ifdefstring</code> .....           | 7         | <code>\MFUhyphenfalse</code> .....  | 6          |
| <code>\ifMFUhyphen</code> .....           | 6         | <code>\MFUnocap</code> .....        | 10         |
| <code>\ifx</code> .....                   | 2, 3, 6–9 |                                     |            |
| <b>L</b>                                  |           |                                     |            |
| <code>\let</code> .....                   | 3, 5–9    | <b>N</b>                            |            |
| <code>\listadd</code> .....               | 7         | <code>\NeedsTeXFormat</code> .....  | 1, 9       |
| <code>\listbreak</code> .....             | 7         | <code>\newcommand</code> .....      | 2, 4–7, 9  |
| <code>\listgadd</code> .....              | 7         | <code>\newif</code> .....           | 2, 6       |
|   |           | <code>\newrobustcmd</code> .....    | 2, 5, 7, 9 |
| <b>M</b>                                  |           | <code>\newtoks</code> .....         | 2          |
| <code>\makefirstuc</code> .....           | 5, 6      | <code>\next@mfu@cap</code> .....    | 6          |
| <code>\MakeUppercase</code> .....         | 5         | <code>\noexpand</code> .....        | 3          |
| <code>mfirstuc package</code> .....       | 9         | <b>P</b>                            |            |
| <code>\mfirstucMakeUppercase</code> ..... | 5         | <code>\protect</code> .....         | 2          |
| <code>\mfu@cap@first</code> .....         | 6         | <code>\protected@edef</code> .....  | 5, 7, 9    |
| <code>\mfu@cap@second</code> .....        | 6         | <code>\ProvidesPackage</code> ..... | 1, 9       |
| <code>\mfu@capitalisewords</code> .....   | 5, 6      | <b>R</b>                            |            |
| <code>\mfu@checkword</code> .....         | 6, 8, 9   | <code>\relax</code> .....           | 2–4, 7, 8  |
| <code>\mfu@checkword@arg</code> .....     | 6, 7      | <code>\renewcommand</code> .....    | 7          |
| <code>\mfu@checkword@do</code> .....      | 6         | <code>\RequirePackage</code> .....  | 1, 10      |
| <code>\mfu@endcap</code> .....            | 5, 6      | <b>T</b>                            |            |
| <code>\mfu@noop</code> .....              | 6         | <code>\the</code> .....             | 3          |
| <code>\MFUapplytofirst</code> .....       | 5         |                                     |            |